Racal Instruments

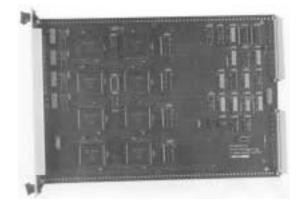
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PRODUCT **INFORMATION**

This product is manufactured by C&H Technologies, Inc. and exclusively distributed by Racal Instruments, Inc.

16-Channel Frequency Source Model VX461C

The VX461C is a 16-Channel Frequency Source that can generate 16 independent square waveforms at frequencies up to 10 MHz in a Csize VXIbus module. Each channel provides phase continuous switching between consecutive programmed frequency values, allowing on-the-fly frequency changes with no transients or discontinuities during range and period changes. All source outputs are available through a 96-pin DIN type connector on the front panel.



Phase Continuous Frequency Switching

Amplitude and phase of "old" and "new" programmed frequency values are equal.

Source Period

Range: 100 ns to 65.5 s Accuracy: ±15 ns

Source Frequency Range

15.26 MHz to 10 MHz

Programing Resolution

Frequency Range	Resolution
305.2 Hz to 10 MHz	50 ns
152.6 Hz to 5 MHz	100 ns
15.26 Hz to 500 kHz	1µs
1.526 Hz to 50 kHz	10 µs
152.6 MHz to 5 kHz	100 μs
15.26 MHz to 500 Hz	1 ms

SPECIFICATIONS

Source Output Characteristics Amplitude: Differential CMOS Transition Time: 5 ns typical

> Output Drivers have the following electrical characteristics: Driver Type: 74HCT245 V_{OH:} 4.9 V – (150 x I_{LOAD}) V V_{OL:} 0.1 V + (150 x I_{LOAD}) V IOH -30 mA max. I_{OL:} 30 mA max.

Note: All outputs have 150 Ω series current limiting resistors

Temperature

Operating: 0° C to +50° C Storage: -40° C to 65° C

Power

+5 V @ 1.5 A

VXIbus Compliance

Complies with ANSI/IEEE Std. 1014-1987 and VXIbus Rev. 1.4 A16:D16 DTB Slave **Register Based** No SYSFAIL No Interrupts IACKIN tied to IACKOUT BRX tied to BGX Form Factor: Size C Built in test via feedback registers

Applications

Square wave generators Automated test Hardware-in-the-loop simulation Power/Control system

Ordering Information Part Number: 11026700-0001

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